



Change Management Board

December 6, 2022



Welcome and Call for Quorum

Roll Call

Amy DiRusso, P.E., FDOT D3
CMB Chairman



Agenda



Time	Item	Lead
1:00 – 1:05	Welcome and Call for Quorum / Roll Call	Amy DiRusso
1:05 – 1:10	Previous Meeting Action Items	Amy DiRusso
1:10 – 1:20	SunGuide Software Update	Christine Shafik
1:20 – 1:30	<u>Enhancement #1</u> SG-6397 - RISC Module Chronology Report (VOTE)	Tucker Brown
1:30 – 1:40	<u>Enhancement #2</u> SG-3391 - Running reports for C2C Links (VOTE)	Tucker Brown
1:40 – 1:50	<u>Enhancement #3</u> SG-6422 - Add Field in SunGuide Vehicle alert window to activate predefined response plan (VOTE)	Tucker Brown
1:50 – 2:00	<u>Enhancement #4</u> SG-6458 - License Plate Match Pop-Up (VOTE)	Tucker Brown



Agenda



Time	Item	Lead
2:00 – 2:10	<u>Enhancement #5</u> SG-5364 - Request to enhance for Vehicle dispatch documentation (VOTE)	Tucker Brown
2:10 – 2:20	<u>Enhancement #6</u> SG-5477 - Associate CCTV from C2C in Event Details (VOTE)	Tucker Brown
2:20 – 2:30	<u>Enhancement #7</u> SG-6417 - Configure RPG Distance for DMS Messages when Travel Lanes are Cleared (VOTE)	Tucker Brown
2:30 – 2:40	<u>Enhancement #8</u> SG-5113 - events being grouped to a single EM location, the events would be very numerous and difficult to group for reporting (VOTE)	Tucker Brown
2:40 – 2:50	<u>Enhancement #9</u> SG-5254 - ONVIF Focus command speed (VOTE)	Tucker Brown
2:50 – 3:00	<u>Enhancement #10</u> SG-6312 - Add Device and Link Geographic Filtering into C2C Subscriber (VOTE)	Tucker Brown



Agenda



Time	Item	Lead
3:00 – 3:10	<u>Enhancement #11</u> SG-6463 - Status Log Level Monitor (VOTE)	Tucker Brown
3:10 – 3:20	<u>FYI Enhancements</u>	Tucker Brown
3:20 – 3:30	Update: SG-6355 - Security improvements	Tucker Brown
3:30 – 3:40	Update: SG-5300 - Access to district SunGuide data from the Central Office	Mark Dunthorn
3:40 – 3:55	Open Discussion	Amy DiRusso
3:55 – 4:00	Review Action Items	Amy DiRusso



CMB Voting Members

1. District 1 – Steven Davis (Alternates – Robbie Brown and Renjan Joseph)
2. District 2 – Alex Varela (Alternate – Dee Dee Crews)
3. District 3 – Greg Reynolds (Alternate – Mark Nallick)
4. District 4 – Mauricio Micolta (Alternate – Alexandra Lopez)
5. District 5 – Tricia Ballard (Alternates – Tushar Patel and Jeremy Dilmore)
6. District 6 – Javier Rodriguez (Alternate – Alejandro Motta)
7. District 7 – Megan Arasteh (Alternates – Edward Albritton and Bruce Wolny)
8. Florida's Turnpike Enterprise (FTE) – Eric Gordin (Alternates – John Easterling and Gregory Cacioppo)
9. State Traffic Engineering and Operations (TEO) Office – Christine Shafik (Alternate – Derek Vollmer)
10. Miami-Dade Expressway Authority (MDX) – Wang Lee (Alternate – Gary Lau)
11. Central Florida Expressway Authority (CFX) – Brent Poole (Alternate – Bryan Homayouni)



Previous Meeting Action Items

Amy DiRusso, P.E., FDOT D3

CMB Chairman



Previous Meeting Action Items

Owner	Action Item
John Hope	Send out PowerPoint version of the meeting slides.
Tucker Brown / Central Office	Work with D5 and D6 on a work-around for the issue involving the filtering of device data through C2C. Include on agenda for next CMB.
Tucker Brown / Central Office	Break down SG-6355 - Security improvements into phases and provide LOE for each: <ul style="list-style-type: none"><li data-bbox="657 778 1498 821">○ Secure interprocess communications (TLSv3)<li data-bbox="657 835 1821 878">○ Replace MD5 hashes for password with something more secure<li data-bbox="657 892 1337 935">○ Password complexity requirements



SunGuide Software Update

Christine Shafik, PE, PMP, CPM, FCCM, FCCN, CGB
FDOT State TSM&O Software Engineer



Recent SunGuide Releases

- CO gave the go-ahead for statewide deployment of R8.1 in production on 12/16/2021.
- R8.1 HF1 was released to districts on 1/11/2022.
- R8.1 HF2 was released to districts on 4/19/2022.
- R8.1 HF3 was released to districts on 5/20/2022.
- R8.1 HF4 was released to districts on 11/30/2022.



SunGuide Release 8.2

- The TSM&O Software Team successfully completed IV&V.
- District 6 has completed testing and operations of the pilot deployment.
- We are finalizing documentation and preparing the package for statewide release.



SunGuide Release 8.2

- Includes:
 - TPAS count verification prompt and report
 - Ceased Use for EM and AVLRR items
 - Configuration dialogs items can be saved despite errors in other items
 - Maintenance Mode for WWD Sites
 - Timestamp when Executive Notifications are sent
 - Chronology Reports can be generated in sections of interest
 - Notification to SwRI when Operator Maps crash
 - Also includes a few bug fixes



SunGuide Release 8.2 HF1

- Contains bug fixes that are included in R8.1 HF4, except for a few that were addressed in R8.2.
- Includes 34 Bug Fixes.
- The TSM&O Software Team is currently testing at the TERL.



SunGuide Releases 8.1 HF4 / 8.2 HF1

- Affects:
 - C2C
 - DMS Subsystem
 - Event Management (EM) Subsystem
 - Incident Detection Subsystem (IDS)
 - Managed Lanes Subsystem (MLS)
 - Operator Map
 - Rapid Incident Scene Clearance (RISC) Subsystem
 - Scheduled Actions Subsystem (SAS)
 - System Administration Application (SAA)



QUESTIONS?

COMMENTS?



SunGuide Enhancement Voting




Enhancement #1: SG-6397 - RISC Module Chronology Report




Enhancement



- A request has been submitted for a RISC Chronology Report with the following fields:



RISC Chronology



Report Template Version: 1.7

Created On:	@ff_display_created_datetime	
Center:	@ff_display_header_center_id	
Filter Parameters Selected:	@ff_display_header_filter_desc	
Period:	@ff_display_date_from_to	
Event(s) Found:	@ff_display_num_events_found	
Event ID Range:	@ff_display_events_from_to	

Event #: EVENT_ID	Event Type: EVENTTYPE_LONG_NAME	Report Date: @ff_report_date
Activation #:		

Status:	County:	
Last Status Time:	Road:	
Duration (mnt):	Location:	
RISC Activator:	RISC Start Time:	
Initial Call:	RISC End Time:	
Call Accepted:		
NTP:	RISC Complete Time:	
All Equipment On Scene:	RISC Removal Time:	

RISC Start/Stop Times:

Additional Equipment Requested

On Scene Equipment

Event Chronology Sub Chronology

Created On: @ff_display_created_datetime	@ff_display_header_cj	
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Change Management Board

Enhancement

- RISC Removal would be calculated as:
 $(\text{RISC Complete Time} - \text{Initial NTP} - \text{SUM}(\text{NTP Stoppage}))$

Status:	County:
Last Status Time:	Road:
Duration (mnt):	Location:
RISC Activator:	RISC Start Time:
Initial Call:	RISC End Time:
Call Accepted:	RISC Complete Time:
NTP:	RISC Removal Time:
All Equipment On Scene:	
RISC Start/Stop Times:	
Additional Equipment Requested	
On Scene Equipment	

- Adding Contractor Name



Enhancement



- Requested Additions
 - Adding Contractor Name and Zone to report
 - Also add as filterable fields
 - Adding Latest Departure for field equipment

- Will need a deep dive into the design review for this one.



LOE



- Estimate: \$12k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2Yd>

Enhancement #1: SG-6397 - RISC Module Chronology Report



Enhancement #2: SG-3391 - Running reports for C2C Links

Tucker Brown

12/6/2022

24



Current Behavior and Enhancement



- Current Behavior
 - C2C link data is logged, but a current set of reports doesn't exist, as one of the main parameters for TSS reporting is detectors which C2C links do not have.

- Enhancement
 - Modify the Map to allow reports to run against specific C2C links in addition to TSS.



LOE



- Estimate: \$13k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2Yz>

Enhancement #2: SG-3391 - Running reports for C2C Links



Enhancement #3:

SG-6422 - Add Field in SunGuide
Vehicle alert window to activate
predefined response plan



Current Behavior and Enhancement



○ Current Behavior

- From a WWD alert, an event has to be created in order for a response plan to be activated.

○ Enhancement

- Add a resolution option to select create an event and activate a response plan in one action.
 - Could select to activate a suggestion or a particular pre-defined plan.



LOE



- Estimate: \$14k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2Y9>

Enhancement #3: SG-6422 - Add Field in SunGuide Vehicle alert window to activate predefined response plan



Enhancement #4: SG-6458 - License Plate Match Pop-Up

Tucker Brown

- Current Behavior
 - License plate match for involved vehicles shows the number of matches with a hyperlink to access the previous events.

- Enhancement
 - When a match is found, generate a popup over the dialog to alert the operator.
 - Configurable to keep current behavior.
 - Popup look would remain the same as the current dialog.
 - Popup would also be shown to the user when changing from a system user to an Operator.



LOE



- Estimate: \$7k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2aK>

Enhancement #4: SG-6458 - License Plate Match Pop-Up



Enhancement #5: SG-5364 - Request to enhance for Vehicle dispatch documentation



Current Behavior & Enhancement



○ Current Behavior

- Vehicles can be dispatched to multiple events and arrive at any of them (but only one arrival at a time).

○ Enhancement

- When the vehicle arrives at an event, owner of another event to which the vehicle is dispatched would get a popup to alert them the vehicle has arrived at the other event.
- Operator would have the option to cancel the dispatch or keep it as is.
- Configurable to keep current behavior.



LOE



- Estimate: \$8k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2aP>

Enhancement #5: SG-5364 - Request to enhance for Vehicle dispatch documentation



Enhancement #6: SG-5477 - Associate CCTV from C2C in Event Details

Tucker Brown



Current Behavior and Enhancement



- Current Behavior
 - With C2C or RCA, remote cameras are now more readily available to operators for viewing or using to verify events.
 - A remote camera cannot be set as the nearest camera (local cameras only).

- Enhancement
 - Allow C2C and RCA cameras to be set (automatically or manually) as the nearest camera in an event.



LOE



- Estimate: \$5k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2aW>

Enhancement #6: SG-5477 - Associate CCTV from C2C in Event Details



Enhancement #7:

SG-6417 - Configure RPG Distance for DMS Messages when Travel Lanes are Cleared



Current Behavior & Enhancement



- Current Behavior
 - When an event has no travel lane blockage, the lowest severity distance is used retrieve signs from the device mapping.

- Enhancement
 - Add a configurable distance for the situation when there is NO travel lane blockage.
 - This could be set to 0 and would not suggest any signs when there is no travel lane blockage.
 - Previous behavior would be maintained by setting this to the same value as the lowest severity.



Enhancement



- Add a configurable device template for “No Travel Lane Blockage”.
 - Can be configured on the default or per event type



LOE



- Estimate: \$21k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2af>

Enhancement #7: SG-6417 - Configure RPG Distance for DMS Messages when Travel Lanes are Cleared



Enhancement #8:

SG-5113 - events being grouped to a single EM location, the events would be very numerous and difficult to group for reporting



Current Behavior & Enhancement



○ Current Behavior

- When selecting the location of an event, sections of the map with multiple locations/roadways can lead to the incorrect selection for the Event Location.

○ Enhancement

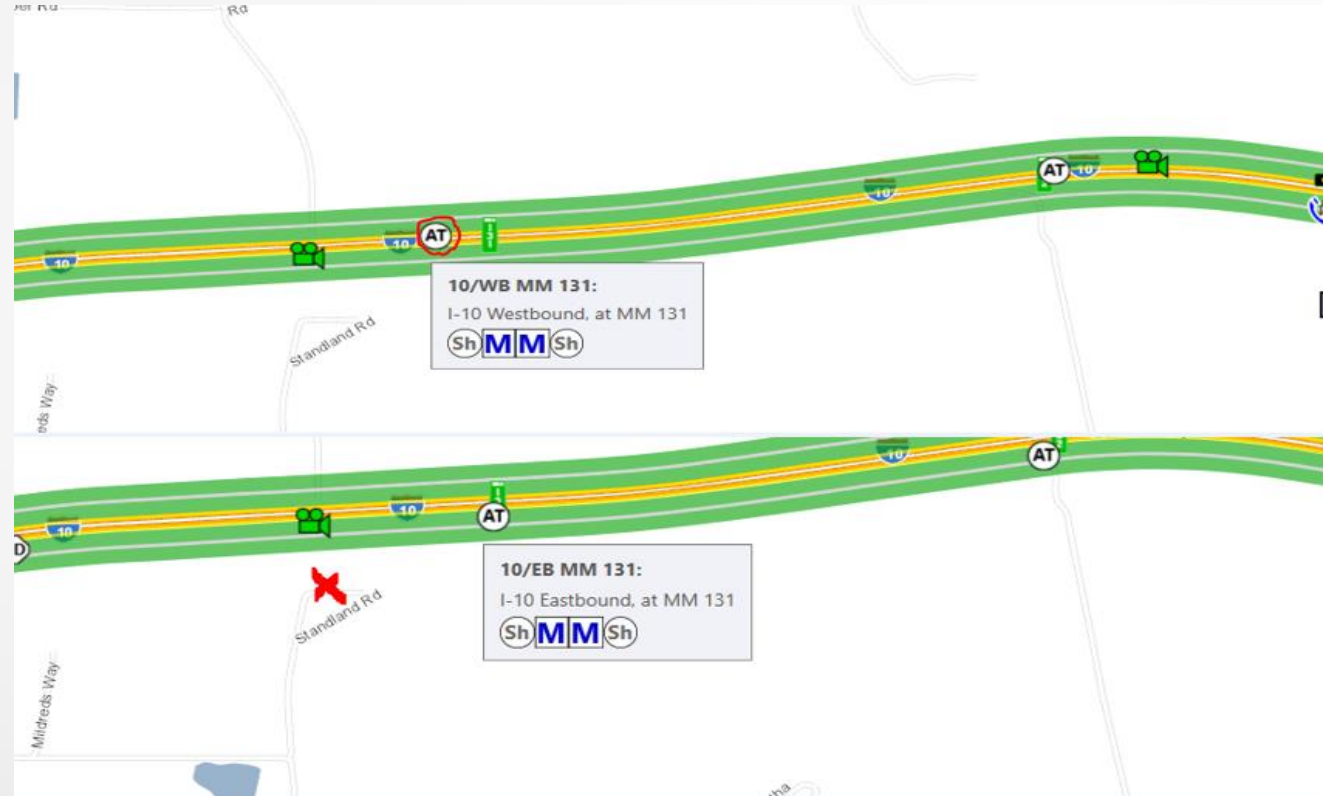
- Allow the EM locations to be visible on the map
- Allow icons to be visible in both directions during configuration.

EM locations populate map



- Make the locations an icon layer, but also have a configuration for minimum zoom required to see the locations (similar to Map Shields).

EM locations populate during configuration



- Seeing both directions during configuration will allow greater accuracy when placing the EM location.



LOE



- Estimate: \$20k



QUESTIONS?

COMMENTS?

VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2ar>

Enhancement #8: SG-5113 - events being grouped to a single EM location, the events would be very numerous and difficult to group for reporting



Enhancement #9: SG-5254 - ONVIF Focus command speed



Current Behavior and Enhancement



- Current Behavior:

- Certain ONVIF manufacturers have focus ranges from (-1 to 1), while others might be (-100 to 100).
- Requests to focus are based on an algorithm that ends up with small steps.

- Enhancement:

- Retrieve the ONVIF range for the camera and scale it the same across all cameras, allowing for smoother focusing.



LOE



- Estimate: \$4k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2ax>

Enhancement #9: SG-5254 - ONVIF Focus command speed



Enhancement #10: SG-6312 - Add Device and Link Geographic Filtering into C2C Subscriber

Tucker Brown



Current Behavior



- When connecting to remote districts and requesting a datatype, all elements of that datatype are reported to the Operator Map and all other subscribing modules/users.
- Data from multiple districts can result in a heavy load on the Operator Map.

Enhancement

- Allow administrators to define the specific devices/links that would be sent to the Operator Map from remote districts.
 - List based configuration
- Lessens the load on the Operator Map. How much depends on the district. TSS has most impact.
- Removes unnecessary information from the operator's view.
- Still allows other modules (TVT, EM) to get full C2C data and use it.



LOE



- Estimate: \$23k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2az>

Enhancement #10: SG-6312 - Add Device and Link Geographic Filtering into C2C Subscriber



Enhancement #11: SG-6463 - Status Log Level Monitor



Current Behavior and Enhancement



○ Current Behavior

- When processes get set to Detail Logging, it can take up more space in the database and fill up hard drives.

○ Enhancement

- Add an email that would alert a configured email list of processes that are in detail mode.
 - Configurable frequency
- Allow the user to set a time limit on the log level before returning to the default logging value.



LOE



- Estimate: \$31k



QUESTIONS?

COMMENTS?



VOTE NOW

Select the link for: <https://questionpro.com/t/ABslzZv2a5>

Enhancement #11: SG-6463 - Status Log Level Monitor



FYI Enhancements

Enhancements

- SG-6389 Add New Column in the Event List for "Congestion"
 - New Column in the Event List. User Preference for showing the column
- SG-6479 WWD Dismiss as False Alarm Closes Event
 - When closing a False Alarm alert, event created will also be set to False Alarm
- SG-5707 Option to not open a report on completion (only email)
 - When a report is generated, allow user to ONLY get an email

Enhancements

- SG-3942 Select Camera in VOD camera list when new window is created with video feed
 - Selection of camera in the VOD camera list based on Map
- SG-5807 Add weather to the event list for pre-planned events
 - Add new types
- SG-5981 Add "# of Items" column to SAS Schedule Table
 - Add a new column in the SAS Schedule Table



QUESTIONS?

COMMENTS?



UPDATE: SG-6355 - Security improvements

Tucker Brown

Enhancement Cost Breakdown

- This item was discussed at the August 30th CMB Meeting.
- Estimated LOE was \$100k.
- Item passed, but a cost breakdown of the three proposed enhancements was requested.
- Secure interprocess communications (TLSv3)
 - \$45k
 - Modifies every subsystem with custom solutions for non-generic processes
 - Heavy testing requirement



Enhancement Cost Breakdown



- Replace MD5 hashes for password with something more secure
 - \$40k
 - Modifies every subsystem
 - Heavy testing requirement
- Password complexity requirements
 - \$15k



QUESTIONS?

COMMENTS?



UPDATE:

SG-5300 - Access to district SunGuide data from the Central Office

Mark Dunthorn



Central Office Need



- Reliable access to detailed district SunGuide data at a range of time scales (from real-time to yearly).
- Options previously discussed at CMB 1/28/2021:
 - Enhanced C2C
 - RCA
 - DAR
- Districts agreed that DAR was the best path forward.



Current Status



- TSMO dashboards primarily depend on C2C data.
- We're seeing low volumes in the ESU Dashboard.
- **We have an urgent need to move forward with the DAR solution!**



Next Steps



- Central Office will distribute instructions for configuring a second instance of the DAR Subsystem to send data to the TERL.
- SwRI will be available to provide support.
- **We're asking that this be completed by Jan 20, 2023.**



Future Phase



- Central Office is investigating a statewide data transport solution to replace DAR.
- A white paper is being prepared.



QUESTIONS?

COMMENTS?



Open Discussion

Amy DiRusso, P.E., FDOT D3
CMB Chairman



Review of Action Items

Amy DiRusso, P.E., FDOT D3

CMB Chairman

Have a Nice Day

